

Recovery Plan Action Status

Plan Name: Recovery Plan for Serpentine Soil Species of the San Francisco Bay Area

Plan Status: Final

Plan Date: 30-Sep-98

Lead Agency: USFWS

Lead Office: Sacramento Fish And Wildlife Office

(916)

414-6600)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bay checkerspot butterfly (Euphydryas editha bayensis), Tiburon mariposa lily (Calochortus tiburonensis), Metcalf Canyon jewelflower (Streptanthus albidus ssp. albidus), Pennell's bird's-beak (Cordylanthus tenuis ssp. capillaris), San Mateo woolly sunflower (Eriophyllum latilobum), Coyote ceanothus (Ceanothus ferrisiae), White-rayed pentachaeta (Pentachaeta bellidiflora), Presidio clarkia (Clarkia franciscana), Fountain thistle (Cirsium fontinale var. fontinale), Tiburon paintbrush (Castilleja affinis ssp. neglecta), Marin dwarf-flax (Hesperolinon congestum), Tiburon jewelflower (Streptanthus niger), San Mateo thormint (Acanthomintha obovata ssp. duttonii), Santa Clara Valley dudleya (Dudleya setchellii)	2	1.1	Establish cooperative programs with participants from the public and private sector	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Information and Education	Internal Technical Assistance	Cooperative program established with Stuart Weiss and San Mateo Parks for reintroduction of Bay Checkerspot into Edgewood Park.

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Bay checkerspot butterfly (Euphydryas editha bayensis), Fountain thistle (Cirsium fontinale var. fontinale), Marin dwarf-flax (Hesperolinon congestum), San Mateo thormmint (Acanthomintha obovata ssp. duttonii)	1	2.1.11	Secure and protect serpentine habitat on Pulgas Ridge (San Mateo County) for multiple species	Not Started			California Department of Transportation, San Francisco Water Department, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Field Assistance	
San Mateo woolly sunflower (Eriophyllum latilobum), Marin dwarf-flax (Hesperolinon congestum)	1	2.1.12	Secure and protect serpentine habitat in San Mateo Creek area (San Mateo County) for multiple species	Not Started			California Department of Transportation, San Francisco Water Department, San Mateo County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Field Assistance	

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Tiburon paintbrush (Castilleja affinis ssp. neglecta), Marin dwarf-flax (Hesperolinon congestum)	1	2.1.3	Secure and protect serpentine habitat in Golden Gate National Recreation Area for multiple species	Ongoing Not Current	FY 1995 - FY 1999		National Park Service, U.S. Fish and Wildlife Service	Acquisition: Management Agreement	Internal Field Assistance	
Marin dwarf-flax (Hesperolinon congestum)	1	2.1.4	Secure and protect serpentine habitat at Mt. Burdell (Marin County) for multiple species	Not Started			Marin County Open Space District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Field Assistance	
Tiburon paintbrush (Castilleja affinis ssp. neglecta), Marin dwarf-flax (Hesperolinon congestum), Tiburon jewelflower (Streptanthus niger)	1	2.1.5	Secure and protect serpentine habitat on Tiburon Peninsula Middle Ridge (Marin County) for multiple species	Not Started			City of Tiburon, California, Marin County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Field Assistance	
Tiburon mariposa lily (Calochortus tiburonensis), Tiburon paintbrush (Castilleja affinis ssp. neglecta), Marin dwarf-flax (Hesperolinon congestum)	1	2.1.6	Secure and protect serpentine habitat on Ring Mountain (Marin County) for multiple species	Not Started			Marin County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Field Assistance	
Tiburon paintbrush (Castilleja affinis ssp. neglecta), Marin dwarf-flax (Hesperolinon congestum), Tiburon jewelflower (Streptanthus niger)	1	2.1.7	Secure and protect serpentine habitat in St. Hilary's area (including Harroman Property) for multiple species	Not Started			Tiburon Landmark Society, Marin County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Field Assistance	
Presidio clarkia (Clarkia franciscana), Marin dwarf-flax (Hesperolinon congestum)	1	2.1.8	Secure and protect serpentine habitat on the Presidio (San Francisco County) for multiple species	Ongoing Current	FY 1995 - FY 1999		National Park Service, U.S. Fish and Wildlife Service	Management	Internal Field Assistance	2004 Comment: Study of management ongoing. 2011: Introduction of Marin dwarf flax is ongoing at Inspiration Pt on the SF Presidio. Conducted by Presidio Trust and Creekside Center for Earth Observation.

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Bay checkerspot butterfly (Euphydryas editha bayensis), Marin dwarf-flax (Hesperolinon congestum)	2	2.1.9	Secure and protect serpentine habitat at Buri Buri Ridge (Santa Clara County) for multiple species	Not Started			San Francisco Water Department, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Field Assistance	
Marin dwarf-flax (Hesperolinon congestum)	2	2.2.13	Secure and protect serpentine habitat at Pine Mountain (Carson Ridge area) (Marin County) for Hesperolinon congestum	Not Started			Marin Municipal Water District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Field Assistance	
Marin dwarf-flax (Hesperolinon congestum)	2	2.2.9	Secure and protect serpentine habitat at Big Rock area (Marin County) for Hesperolinon congestum	Not Started			Marin County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: General	Internal Field Assistance	This site is part of George Lucas Studio. A sect 7 was done on this. Some Hesperolinon was proposed to be protected as mitigation for loss of the plants from construction of a reservoir.

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Tiburon paintbrush (Castilleja affinis ssp. neglecta), Marin dwarf-flax (Hesperolinon congestum)	2	4.2.11	Conduct surveys in historic and potential habitat at Golden Gate National Recreation Area (Marin County) for multiple species	Ongoing Current	FY 1995 - FY 1999		National Park Service, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Graduate Student	Some monitoring occurs under Recovery Permit

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Presidio clarkia (<i>Clarkia franciscana</i>), Marin dwarf-flax (<i>Hesperolinon congestum</i>)	2	4.2.19	Conduct surveys in historic and potential habitat on the Presidio (San Francisco County) for multiple species	Ongoing Current	FY 1995 - FY 1999		National Park Service, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Graduate Student	
Marin dwarf-flax (<i>Hesperolinon congestum</i>)	3	4.2.20	Conduct surveys in historic and potential habitat on San Francisco Peninsula (south of Presidio) (San Francisco County) for	Not Started			National Park Service, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Graduate Student	
Marin dwarf-flax (<i>Hesperolinon congestum</i>)	2	4.2.21	Conduct surveys in historic and potential habitat in area between San Andreas Lake and Crystal Springs Reservoir and to the west (San Mateo County) for multiple species	Not Started			San Mateo County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Graduate Student	
Marin dwarf-flax (<i>Hesperolinon congestum</i>)	2	4.2.29	Conduct surveys in historic and potential habitat in Woodside Glens / Canada College (generally in the Woodside area) (San Mateo County) for <i>Hesperolinon congestum</i>	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Graduate Student	
Marin dwarf-flax (<i>Hesperolinon congestum</i>)	2	4.2.9	Conduct surveys in historic and potential habitat at Alpine Lake / Carson Ridge (Marin County) for multiple species	Not Started			Marin Municipal Water District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Graduate Student	

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Tiburon paintbrush (<i>Castilleja affinis</i> ssp. <i>neglecta</i>), Marin dwarf-flax (<i>Hesperolinon congestum</i>), Tiburon jewelflower (<i>Streptanthus niger</i>)	2	5.13	Conduct necessary research at St. Hilary's area (includes Harroman Property), Tiburon Peninsula (Marin County) for multiple species	Not Started			City of Tiburon, California, Marin County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Demographic Studies	Graduate Student	
Presidio clarkia (<i>Clarkia franciscana</i>), Marin dwarf-flax (<i>Hesperolinon congestum</i>)	1	5.15	Conduct necessary research at the Presidio (San Francisco County) for multiple species	Ongoing Current	FY 2007		National Park Service, U.S. Fish and Wildlife Service	Research: Habitat Requirements	Graduate Student	Conducting burn/scrape/tarp studies to benefit Presidio clarkia. Reintroduction efforts for <i>Hesperolinon congestum</i> have begun at Inspiration Pt. on the SF Presidio by Presidio Trust and Creekside Center for Earth Observation.
Bay checkerspot butterfly (<i>Euphydryas editha bayensis</i>), San Mateo woolly sunflower (<i>Eriophyllum latilobum</i>), White-rayed pentachaeta (<i>Pentachaeta bellidiflora</i>), Fountain thistle (<i>Cirsium fontinale</i> var. <i>fontinale</i>), Marin dwarf-flax (<i>Hesperolinon congestum</i>), San Mateo thornmint (<i>Acanthomintha obovata</i> ssp. <i>duttonii</i>)	1	5.16	Conduct research on vegetation management methods in selected areas county-wide (San Mateo county) for multiple species	Ongoing Current	FY 2008	FY 2010	U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Requirements	Contract	

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Marin dwarf-flax (Hesperolinon congestum)	3	5.23	Conduct necessary research at Woodside Glens / Canada College (generally in the Woodside area) (San Mateo County) for	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Demographic Studies	Graduate Student	
Marin dwarf-flax (Hesperolinon congestum)	2	5.6	Review species listing status for species of concern Lessingia micradenia micradenia	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Requirements	Graduate Student	

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Tiburon paintbrush (Castilleja affinis ssp. neglecta), Marin dwarf-flax (Hesperolinon congestum)	2	5.8	Conduct necessary research at Golden Gate National Recreation Area (Marin County) for multiple species	Not Started			National Park Service, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Management Techniques	Graduate Student	
Marin dwarf-flax (Hesperolinon congestum)	2	5.9	Review species listing status for species of concern Marin micro-blind harvestman	Not Started			San Mateo County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Management Techniques	Graduate Student	